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(71) Applicant (for all designated States except US): **ELAN PHARMACEUTICALS, INC.** [US/US]; 800 Gateway Boulevard, South San Francisco, CA 94080 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JOHN, Varghese** [US/US]; 1722 18th Avenue, San Francisco, CA 94112 (US). **MAILLARD, Michel** [US/US]; 219 Shorebird Circle, Redwood Shores, CA 94065 (US).

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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

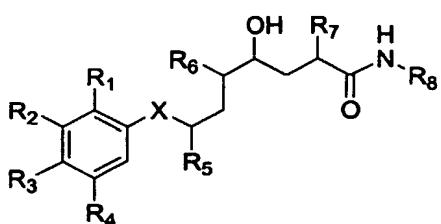
Published:
— with international search report

(88) Date of publication of the revised international search report: 29 April 2004

(15) Information about Correction:
see PCT Gazette No. 18/2004 of 29 April 2004, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS OF TREATING ALZHEIMER'S DISEASE USING ARYL ALKANOIC ACID AMIDES



(1)

(57) Abstract: Disclosed are methods for treating Alzheimer's disease, and other diseases, and/or inhibiting beta-secretase enzyme, and/or inhibiting deposition of A beta peptide in a mammal, by use of compounds of formula (1) wherein the variables R₁-R₈ and X are defined herein.

WO 2003/103653 A1

PATENT COOPERATION TREATY

DOCKETED

OCT 07 2003

From the INTERNATIONAL SEARCHING AUTHORITY

To:
 McDONNELL BOEHNEN HULBERT
 & BERGHOFF
 Attn. Singer, Christopher P.
 300 South Wacker Drive, Suite 3200
 Chicago, IL 60606
 UNITED STATES OF AMERICA

PCT DUE DATE: 12-6-03
 BY: NO 9

NOTIFICATION OF TRANSMITTAL OF
 THE INTERNATIONAL SEARCH REPORT
 OR THE DECLARATION

1-6-04

(PCT Rule 44.1)

		Date of mailing (day/month/year)	06/10/2003
Applicant's or agent's file reference 02-414-A		FOR FURTHER ACTION	See paragraphs 1 and 4 below
International application No. PCT/US 03/18517		International filing date (day/month/year)	11/06/2003
Applicant ELAN PHARMACEUTICALS		S/DR	

1. The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO
 34, chemin des Colombettes
 1211 Geneva 20, Switzerland
 Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within **19 months** from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within **20 months** from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority  European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Natalia Morancho Alcaine
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These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 02-414-A	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 03/ 18517	International filing date (day/month/year) 11/06/2003	(Earliest) Priority Date (day/month/year) 11/06/2002
Applicant ELAN PHARMACEUTICALS		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 8 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

contained in the international application in written form.

filed together with the international application in computer readable form.

furnished subsequently to this Authority in written form.

furnished subsequently to this Authority in computer readable form.

the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. **Certain claims were found unsearchable** (See Box I).

3. **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

as suggested by the applicant.

because the applicant failed to suggest a figure.

because this figure better characterizes the invention.

None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/18517

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 A61K31/165 A61P25/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 559 111 A (YAMAGUCHI YASUCHIKA ET AL) 24 September 1996 (1996-09-24) the whole document abstract	28
Y	-----	1-27
X	EP 0 678 514 A (CIBA GEIGY AG) 25 October 1995 (1995-10-25) page 5, line 18 - page 6, line 21	28
Y	page 6, line 21	1-27

X	WO 02 02508 A (SPEEDEL PHARMA AG ; HEROLD PETER -(CH) ; SPINDLER FELIX (CH) ; STUTZ STEF) 10 January 2002 (2002-01-10) the whole document page 1, line 9	28
Y	-----	1-27
		-/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *&* document member of the same patent family

Date of the actual completion of the international search

12 December 2003

Date of mailing of the International search report

06 October 2003

Name and mailing address of the ISA

European Patent Office, P.B. 5810 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax (+31-70) 340-3016

Authorized officer

Giacobbe, S

INTERNATIONAL SEARCH REPORT

International Application No

PCT/03/18517

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01 09083 A (SPEEDEL PHARMA AG ; HEROLD PETER (CH); STUTZ STEFAN (CH); INDOLESE ADR) 8 February 2001 (2001-02-08) the whole document page 1, line 17 -----	28
Y	-----	1-27
X	WO 02 08172 A (SPEEDEL PHARMA AG ; HEROLD PETER (CH); STUTZ STEFAN (CH)) 31 January 2002 (2002-01-31) the whole document page 1, line 9 -----	28
Y	-----	1-27
X	MEALY, N. E. ET AL: "Aliskiren fumarate" DRUGS OF THE FUTURE, vol. 26, no. 12, 2001, pages 1139-1148, XP0009017211 the whole document -----	28
Y	-----	1-27
Y	ROGGO SILVIO: "Inhibition of BACE, a promising approach to Alzheimer's disease therapy." CURRENT TOPICS IN MEDICINAL CHEMISTRY., vol. 2, no. 4, April 2002 (2002-04), pages 359-370, XP0009017212 ISSN: 1568-0266 figure 3 page 361, column 2, paragraph 2 -----	1-27
Y	RAHUEL J ET AL: "Structure-based drug design: the discovery of novel nonpeptide orally active inhibitors of human renin." CHEMISTRY & BIOLOGY, vol. 7, no. 7, July 2000 (2000-07), pages 493-504, XP002254255 ISSN: 1074-5521 page 500, column 2, paragraph 2 - page 502, column 1, paragraph 2 -----	1-27
P,X	EP 1 215 201 A (SPEEDEL PHARMA AG) 19 June 2002 (2002-06-19) the whole document -----	28
P,Y	----- paragraph '0002! -----	1-27
P,Y	WO 02 100820 A (UPJOHN CO ; ELAN PHARM INC (US); MAILLARD MICHEL (US); TUCKER JOHN ALA) 19 December 2002 (2002-12-19) page 1, line 5 - page 3, line 34 -----	1-27
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INTERNATIONAL SEARCH REPORT

International Application No
PCT/03/18517

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	LEUNG DONMIENNE ET AL: "Protease inhibitors: Current status and future prospects." JOURNAL OF MEDICINAL CHEMISTRY., vol. 43, no. 3, 10 February 2000 (2000-02-10), pages 305-341, XP002254336 & ISSN: 0022-2623 the whole document -----	1-28

INTERNATIONAL SEARCH REPORTInternational application No.
US 03/18517**Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 1-27 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/03/18517

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 5559111	A	24-09-1996	AT 183997 T AU 1642095 A AU 699616 B2 AU 1642195 A AU 1642395 A BR 1100656 A3 CA 2147044 A1 CA 2147052 A1 CA 2147056 A1 CN 1117960 A CZ 9500976 A3 DE 59506707 D1 DK 678503 T3 EP 0678503 A1 EP 0678514 A1 EP 0678500 A1 ES 2137478 T3 FI 951771 A FI 951772 A FI 951773 A GR 3031997 T3 HU 74074 A2 HU 72110 A2 HU 71701 A2 IL 113403 A JP 8053434 A JP 3240322 B2 JP 8081430 A JP 8027079 A NO 951441 A NO 951442 A NO 951443 A NZ 270936 A NZ 270938 A NZ 270939 A TW 402582 B US 5606078 A US 5659065 A US 5654445 A US 5646143 A US 5627182 A US 5705658 A ZA 9503050 A ZA 9503051 A ZA 9503052 A		15-09-1999 26-10-1995 10-12-1998 26-10-1995 26-10-1995 06-06-2000 19-10-1995 19-10-1995 19-10-1995 06-03-1996 15-11-1995 07-10-1999 20-03-2000 25-10-1995 25-10-1995 25-10-1995 16-12-1999 19-10-1995 19-10-1995 19-10-1995 31-03-2000 28-10-1996 28-03-1996 29-01-1996 24-07-2001 27-02-1996 17-12-2001 26-03-1996 30-01-1996 19-10-1995 19-10-1995 19-10-1995 24-06-1997 26-11-1996 20-12-1996 21-08-2000 25-02-1997 19-08-1997 05-08-1997 08-07-1997 06-05-1997 06-01-1998 08-11-1995 18-10-1995 18-10-1995
EP 0678514	A	25-10-1995	AT 183997 T AU 1642095 A AU 699616 B2 AU 1642195 A AU 1642395 A BR 1100656 A3 CA 2147044 A1 CA 2147052 A1 CA 2147056 A1 CN 1117960 A CZ 9500976 A3 DE 59506707 D1		15-09-1999 26-10-1995 10-12-1998 26-10-1995 26-10-1995 06-06-2000 19-10-1995 19-10-1995 19-10-1995 06-03-1996 15-11-1995 07-10-1999

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.
PCT/US 03/18517

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0678514	A	DK 678503 T3 EP 0678503 A1 EP 0678514 A1 EP 0678500 A1 ES 2137478 T3 FI 951771 A FI 951772 A FI 951773 A GR 3031997 T3 HU 74074 A2 HU 72110 A2 HU 71701 A2 IL 113403 A JP 8053434 A JP 3240322 B2 JP 8081430 A JP 8027079 A NO 951441 A NO 951442 A NO 951443 A NZ 270936 A NZ 270938 A NZ 270939 A TW 402582 B US 5606078 A US 5659065 A US 5559111 A US 5654445 A US 5646143 A US 5627182 A US 5705658 A ZA 9503050 A ZA 9503051 A ZA 9503052 A	20-03-2000 25-10-1995 25-10-1995 25-10-1995 16-12-1999 19-10-1995 19-10-1995 19-10-1995 31-03-2000 28-10-1996 28-03-1996 29-01-1996 24-07-2001 27-02-1996 17-12-2001 26-03-1996 30-01-1996 19-10-1995 19-10-1995 19-10-1995 24-06-1997 26-11-1996 20-12-1996 21-08-2000 25-02-1997 19-08-1997 24-09-1996 05-08-1997 08-07-1997 06-05-1997 06-01-1998 08-11-1995 18-10-1995 18-10-1995
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WO 0208172	A 31-01-2002	AU 7376401 A CA 2412452 A1 WO 0208172 A1 EP 1303478 A1	05-02-2002 31-01-2002 31-01-2002 23-04-2003

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/03/18517

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 1215201	A 19-06-2002	EP US	1215201 A2 2002082302 A1	19-06-2002 27-06-2002
WO 02100820	A 19-12-2002	WO	02100820 A1	19-12-2002